

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-8. (Canceled)

9. (Currently Amended) A data processing system for identifying nodes in a network data processing system, the data processing system comprising:

a bus system;

a communications unit connected to the bus system;

a memory connected to the bus system, wherein the memory includes a set of instructions; and

a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to receive cache data from a set of routers in the data processing system on a periodic basis, wherein the cache data includes an identification of the nodes sending data packets onto the network data processing system; store the cache data received on a periodic basis prior to clearing the received cache data from the set of routers, wherein the stored cache data comprises snapshots of cache data previously present in the set of routers over time; identify the nodes on the network data processing system using the stored cache data from the set of routers; and generate a display of the nodes in a graphical view comprising communications paths between the nodes with a graphical indication of network traffic volume using the cache data received on a periodic basis stored cache data, wherein the graphical view includes network traffic volume and node relationships over time.

10. (Currently Amended) A data processing system for identifying nodes in a network data processing system, the data processing system comprising:

receiving means for receiving cache data from a set of routers in the data processing system on a periodic basis, wherein the cache data includes an identification of the nodes sending data packets onto the network data processing system;

storing means for storing the cache data received on a periodic basis prior to clearing the cache data from the set of routers, wherein the stored cache data comprises snapshots of cache data previously present in the set of routers over time;

identifying means for identifying the nodes on the network data processing system using the stored cache data from the set of routers; and

generating means for generating a display of the nodes in a graphical view comprising communications paths between the nodes with a graphical indication of network traffic volume using the ~~cache data received on a periodic basis~~ stored cache data, wherein the graphical view includes network traffic volume and node relationships over time.

11. (Original) The data processing system of claim 10, wherein the cache data is from a set of address resolution protocol caches located on the set of routers.

12. (Currently Amended) The data processing system of claim 10 further comprising:
identifying means for identifying communications paths between the nodes on the network data processing system using the stored cache data.

13. (Currently Amended) The data processing system of claim 11, further comprising:
identifying means for identifying network traffic on the communication paths using the stored cache data ~~received on a periodic basis from the set of routers~~.

14. (Currently Amended) The data processing system of claim 13, wherein the stored cache data ~~received on the periodic basis~~ is used to validate service level agreement compliance.

15. (Original) The data processing system of claim 11, wherein the cache data is received through agents located on the set of routers.

16. (Original) The data processing system of claim 15, where the agents clear the set of address resolution protocol caches each time data is sent to the data processing system.

17. (Original) The data processing system of claim 11, wherein the cache data contains entries for the nodes sending data packets onto the network data processing system and wherein each entry includes at least one of a media access control address, a source Internet Protocol address, and a destination Internet Protocol address.

18. (Currently Amended) A computer program product in a computer readable medium for identifying nodes in a network data processing system, the computer program product comprising:

first instructions for receiving cache data from a set of routers in the data processing system on a periodic basis, wherein the cache data includes an identification of the nodes sending data packets onto the network data processing system;

second instructions for storing the cache data received on a periodic basis prior to clearing the cache data from the set of routers, wherein the stored cache data comprises snapshots of cache data previously present in the set of routers over time;

~~second~~ third instructions for identifying the nodes on the network data processing system using the stored cache data from the set of routers; and

[[third]] fourth instructions for generating a display of the nodes in a graphical view comprising communications paths between the nodes with a graphical indication of network traffic volume using the ~~each data received on a periodic basis~~ stored cache data, wherein the graphical view includes network traffic volume and node relationships over time.

19. (Original) The computer program product of claim 18, wherein the cache data is from a set of address resolution protocol caches located on the set of routers.

20. (Currently Amended) The computer program product of claim 18 further comprising:

~~fourth~~ fifth instructions for identifying communications paths between the nodes on the network data processing system using the stored cache data.

21. (Previously Presented) The data processing system of claim 10, wherein the graphical indication comprises network connections of different thicknesses to indicate network traffic volume.